

Fig. 1

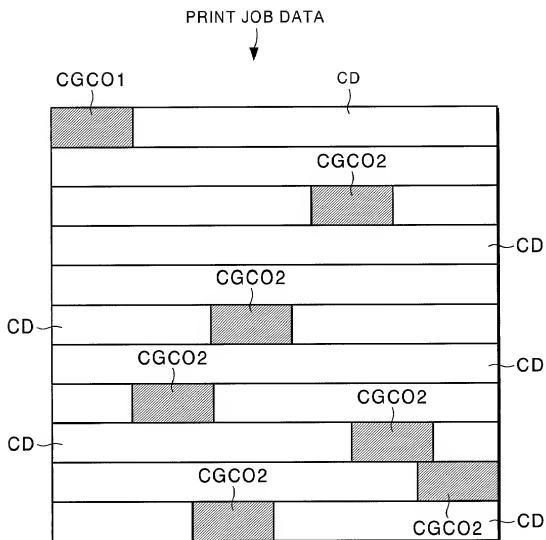


Fig. 2

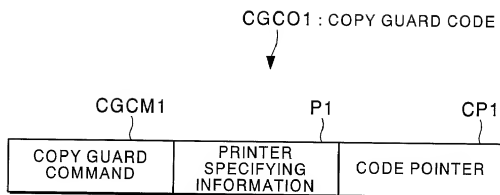


Fig. 3A

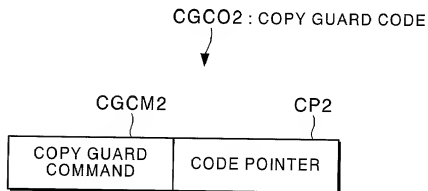


Fig. 3B

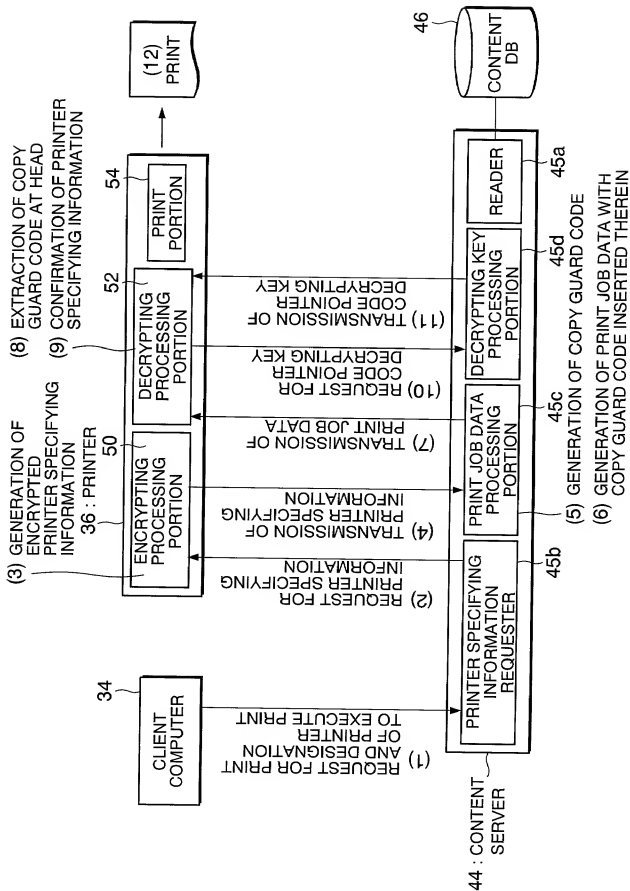


Fig. 4

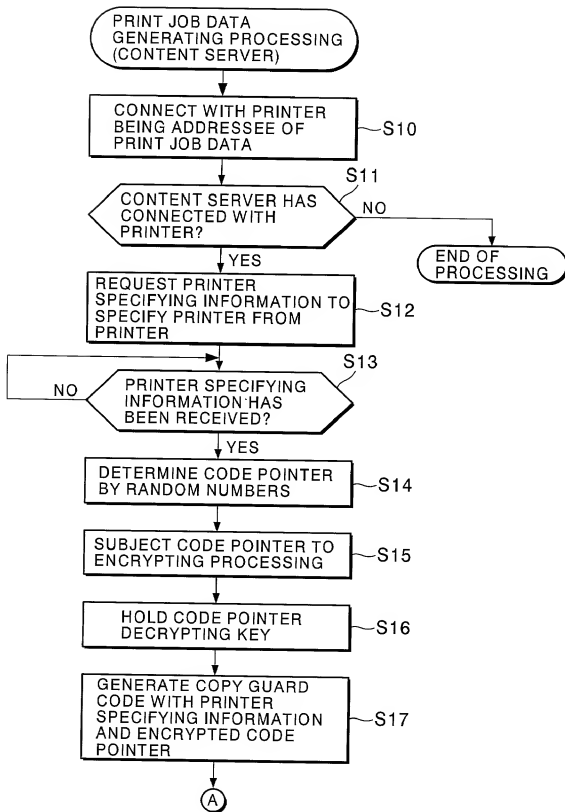


Fig. 5

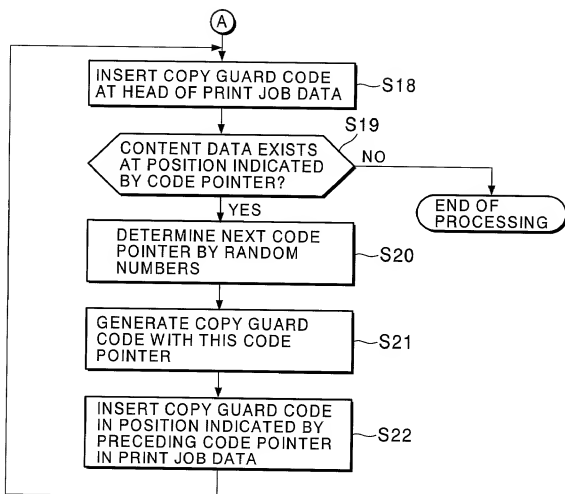


Fig. 6

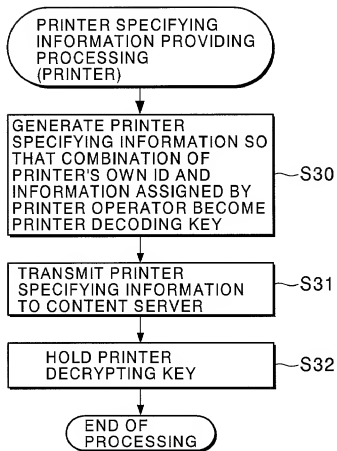


Fig. 7

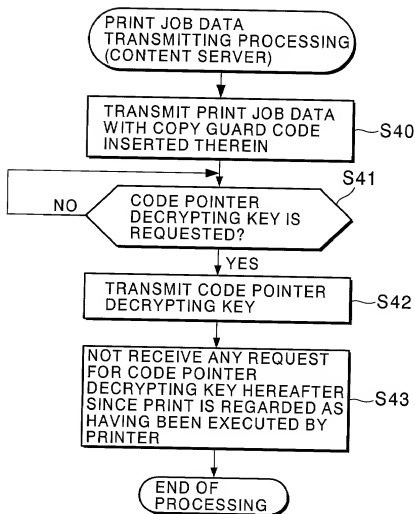


Fig. 8

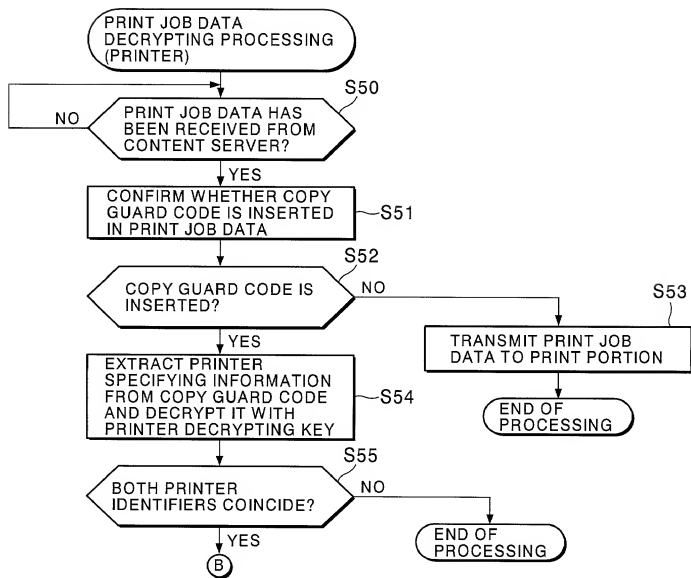


Fig. 9

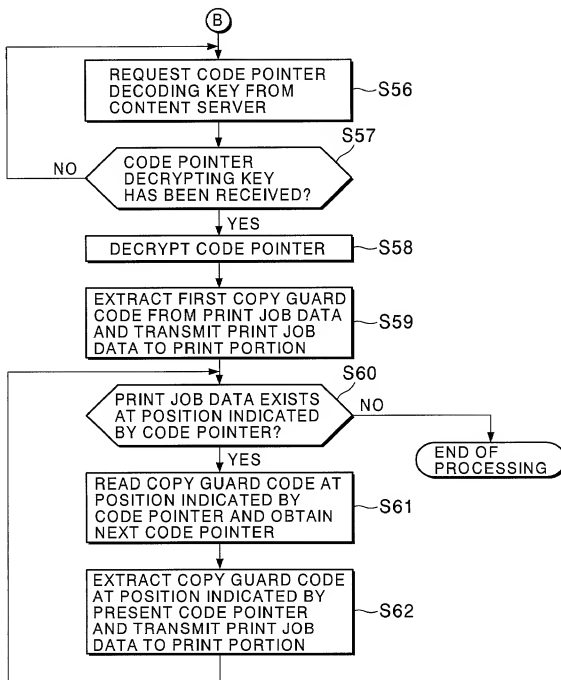


Fig. 10

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PRINT JOB DATA

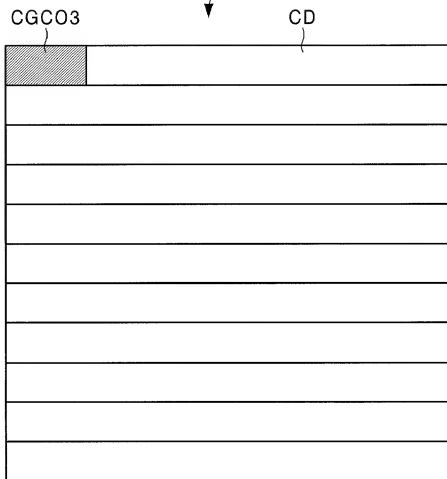


Fig. 11

CGCO3 : COPY GUARD CODE

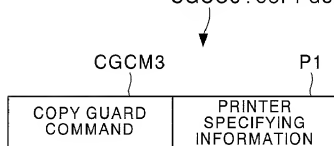


Fig. 12

Figure 1 is a block diagram illustrating a system for generating and adding a copy guard code to print data. The system includes a Client Computer (34) and a Content Server (44).

The Client Computer (34) contains the following components and processes:

- Encrypting Processing Portion (50):** Performs process (3) "GENERATION OF COPY ENCRYPTED PRINTER SPECIFYING INFORMATION 36 : PRINTER".
- Decrypting Processing Portion (52):** Performs process (8) "EXTRACTION OF COPY GUARD CODE AT HEAD" and process (9) "CONFIRMATION OF PRINTER SPECIFYING INFORMATION".
- Print Portion (54):** Performs process (12) "PRINT".

The Content Server (44) contains the following components and processes:

- Printer Specifying Information Requester (45b):** Initiates process (1) "REQUEST FOR PRINT AND DESIGNATION OF PRINTER TO EXECUTE PRINT".
- Print Job Data Processing Portion (45c):** Performs process (2) "REQUEST FOR PRINTER SPECIFYING INFORMATION", process (4) "TRANSMISSION OF PRINTER SPECIFYING INFORMATION", process (7) "TRANSMISSION OF PRINT JOB DATA", and process (10) "REQUEST FOR DECRYPTING KEY".
- Decrypting Key Processing Portion (45d):** Performs process (11) "TRANSMISSION OF DECRYPTING KEY".
- Reader (45a):** Performs process (6) "GENERATION OF PRINT JOB DATA BY ENCRYPTING WHOLE CONTENT DATA AND ADDING COPY GUARD CODE".

The overall process flow is as follows:

- REQUEST FOR PRINT AND DESIGNATION OF PRINTER TO EXECUTE PRINT
- REQUEST FOR PRINTER SPECIFYING INFORMATION
- GENERATION OF COPY ENCRYPTED PRINTER SPECIFYING INFORMATION 36 : PRINTER
- TRANSMISSION OF PRINTER SPECIFYING INFORMATION
- GENERATION OF COPY GUARD CODE
- GENERATION OF PRINT JOB DATA BY ENCRYPTING WHOLE CONTENT DATA AND ADDING COPY GUARD CODE
- TRANSMISSION OF PRINT JOB DATA
- EXTRACTION OF COPY GUARD CODE AT HEAD
- CONFIRMATION OF PRINTER SPECIFYING INFORMATION
- REQUEST FOR DECRYPTING KEY
- TRANSMISSION OF DECRYPTING KEY
- PRINT

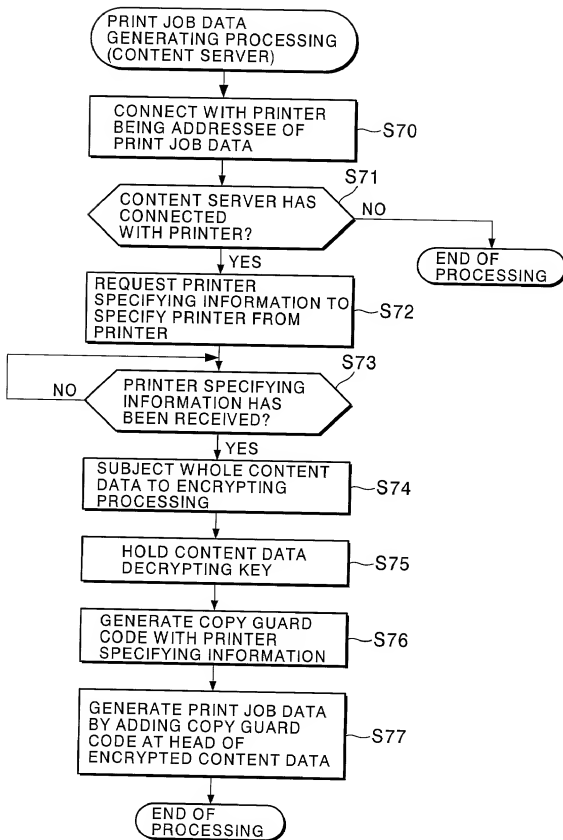


FIG. 14

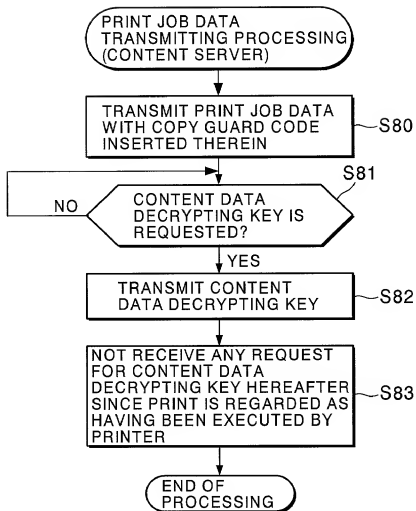


FIG. 15

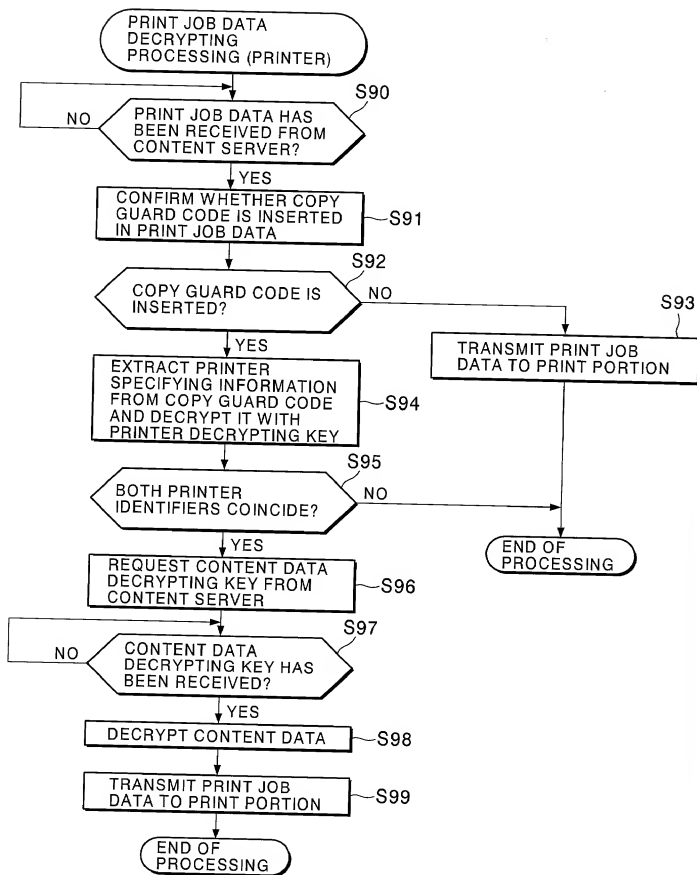


FIG. 16

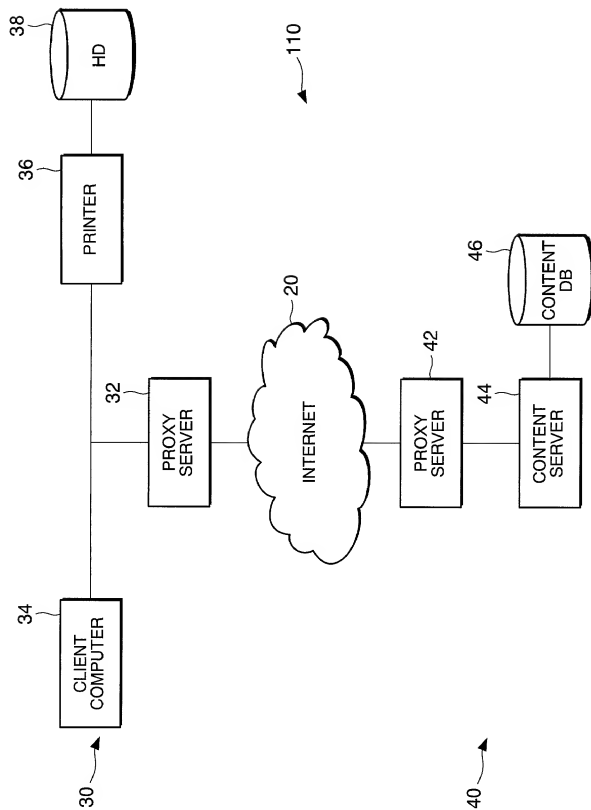


FIG. 17

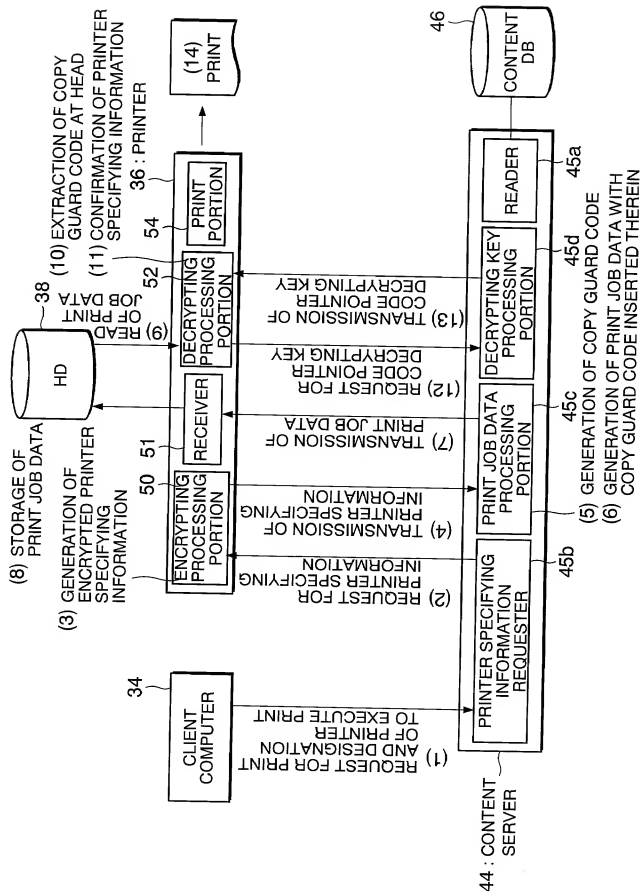


FIG. 18

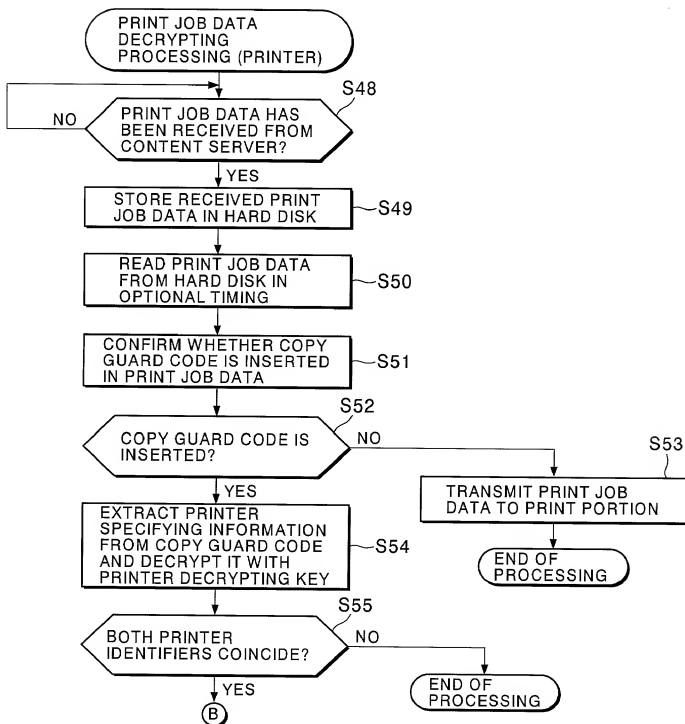


FIG. 19

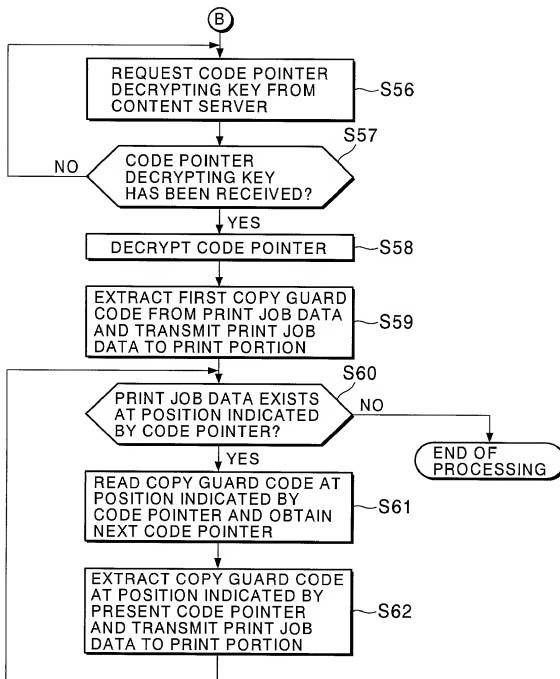


FIG. 20

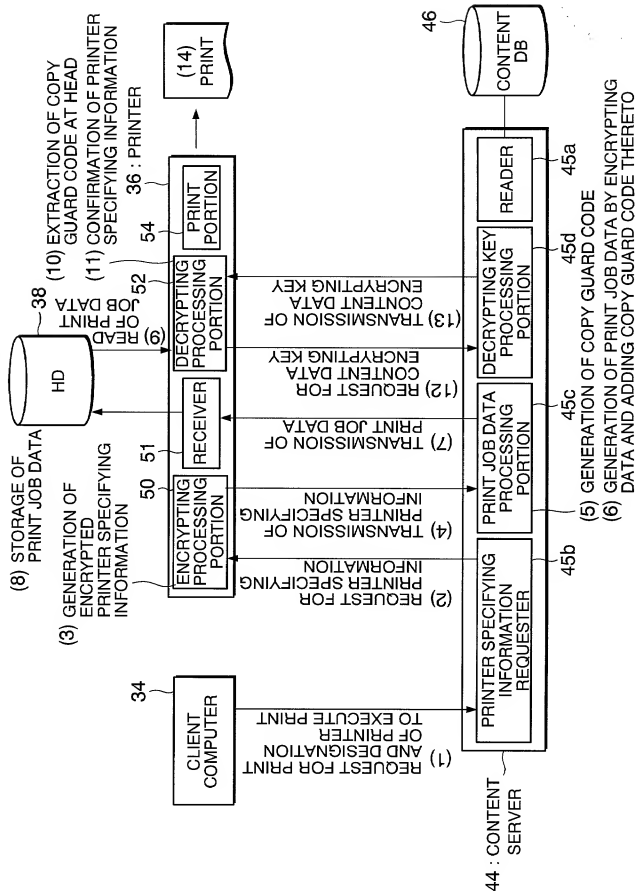


FIG. 21

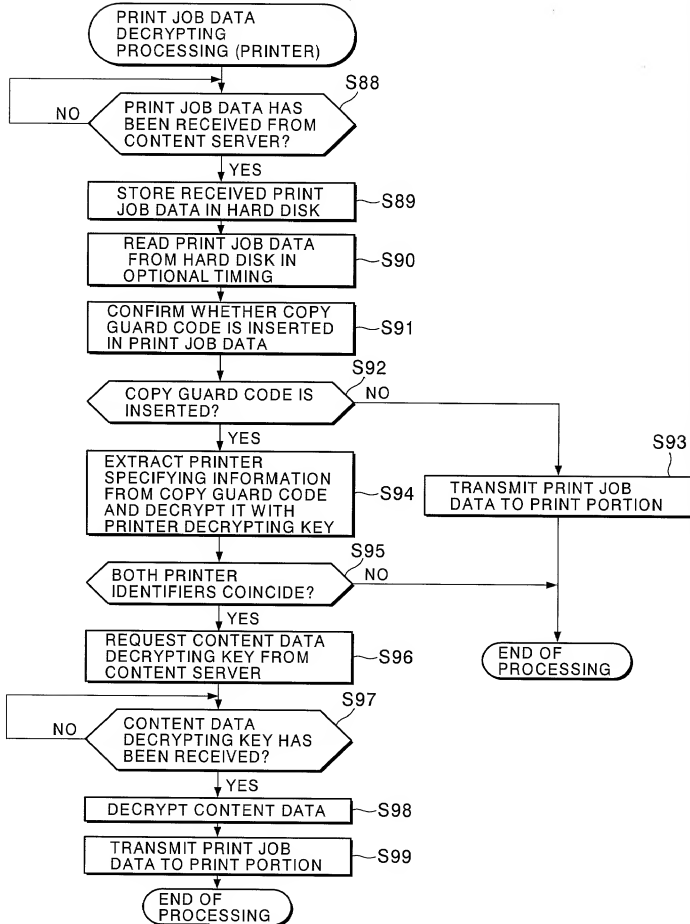


FIG. 22